

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Canceled)

2. (Currently Amended) A method for dynamically monitoring and linking cross-process and cross-thread transactions in a bytecode injected application, the method comprising:

inserting a bytecode inserted probe into the bytecode injected application, wherein the bytecode inserted probe detects a correlating token in an inbound request, retrieves the correlating token and dynamically determines if the inbound request is a child of an out of process transaction, wherein the out of process transaction began in a cross-process or cross-thread The method of claim 1, wherein the bytecode inserted probe uses any of a plurality of methods to detect and retrieve the correlating token from the inbound request, and wherein the correlating token is passed in the inbound request across thread boundaries and process boundaries using the plurality of methods including at least attaching the correlating token to one of an HTTP request, an outbound JMS message, a Common Object Request Broker Architecture (CORBA) message, and a Simple Object Access Protocol (SOAP) header of a web service request;

responsive to a determination that the inbound request is a child of an out of process transaction, recording the inbound request; and

linking the inbound request to the out of process transaction.

3. (Currently Amended) The method of claim [[1]] 2, wherein the bytecode inserted probe detects the correlating token in the inbound request using a TransactionInfo object.

4. (Currently Amended) The method of claim [[1]] 2, wherein the correlating token includes a transaction monitoring policy, and wherein the transaction monitoring policy defines whether the inbound request should be recorded.

5. (Canceled)

6. (Currently Amended) The method of claim [[1]] 2, wherein the step of linking the inbound request to the out of process transaction is performed by a transaction performance monitor.
7. (Currently Amended) The method of claim [[1]] 2, further comprising:  
having the bytecode inserted probe determine if the inbound request is a root transaction.
8. (Currently Amended) The method of claim [[1]] 2, further comprising:  
having a transaction performance monitor determine if the inbound request is a root transaction.
9. (Original) The method of claim 7, wherein the inbound request is a root transaction if the bytecode inserted probe fails to locate the correlating token within a container.
10. (Currently Amended) The method of claim [[1]] 2, wherein the bytecode inserted probe retrieves the correlating token from the inbound request while the bytecode inserted probe runs in-line with the inbound request.

11 - 30. (Canceled)